Service Manual Nissan Engine Model P

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NISSAN ENGINE

MODEL P

SERVICE MANUAL



NISSAN MOTOR CO., LTD.

TOKYO, JAPAN

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NISSAN ENGINE MODEL P SERVICE MANUAL



NISSAN MOTOR CO., LTD.

TOKYO, JAPAN

FOREWORD

This manual has been complied for pourpose of assisting NISSAN distributors and dealers for effective service and maintenance of the Model "P" engine.

Model "P" engine has been used for the various models of vehicles such as Model 680, Model 4W73 and Model 60 series.

Each assembly of major components is described in detail. In addition, comprehensive instructions are given for assembling and inspection of these assemblies.

The difference between Model 680, 4W73 and 60 are also given in this manual as far as engine concerned.

It is emphasized that the only genuine Nissan Spare Parts should be used as replacements.

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GENERAL INFORMATIONS

SPECIFICATIONS

ENGINE PROPER:

Model · · · · · · · P Engine (for 680, 60 & 4W73 Series)
Maker · · · · · · · · · · · · · · Nissan Motor Co., Ltd.
Maker · · · · · · · · · · · · · · · · · · ·
Cooling
Cylinder Arrangement
Cycles
Combustion Chamber · · · · · · · · · · · · · · · Bath tube type
Cylinder Head · · · · · · · · · · · · · · · · · · Over head valve
Cylinder Head · · · · · · · · · · · · · · · · · · ·
Total Displacement Volume (cc.) $\cdot \cdot \cdot$
Compression Ratio
Compression Pressure $(lb/\Box)'-200$ rpm) $\cdots \cdots \cdots$
Maximum Horse Power (HP/rpm) (S. A. E.) $\cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot 145/3800$
Maximum Torque (m-kg/rpm) 235 ft-lbs 2000 rpm
Minimum Fuel Consumption at Full Load
(g/P.Sh/rpm).
Engine Dimensions (mm) - Length - Fan to Fly wheel · · · · 904
Width - Rear Support, right to Air Cleaner, left
Height - Air Cleaner to Oil Pan · · · · · · · · · · · · · · · · · 882
Engine Weight (Equipped) (dry) (kg)
Number of Piston Rings - Compression
Engine weight (Equipped) (ary) (kg) 233 Number of Piston Rings - Compression 2 - Oil - - Oil - - Type of Piston - Material of Piston -
Type of Piston · · · · · · · · · · · · · · · · · · ·
Material of Piston
Valve Timing:
Inlet Valve, open (degrees) B. T. D. C
Inlot Valve, closed (degrees) A B D C · · · · · · · · · · · · · · · · · ·
Exbaugt Value open (degrees) B B D C
Exhaust Valve, closed (degrees) A. B. D. C
Exhaust valve, closed (degress) A. I. D. C.
Valve Tappet Clearance:
Inlet Valve (hot) (mm) $\cdot \cdot \cdot$
Inlet Valve (hot) (mm) ·
Initian Method
Ignition Method · · · · · · · · · · · · · · · · · · Battery & Ignition coil Ignition Timing (B. T. D. C. /rpm) · · · · · · · · · · · · · · · · · · ·
Ignition Timing (b. 1. D. C. / Ipni)
Piring Urder
Starting Method · · · · · · · · · · · · · · · · Startor Motor & Craik Handle

IGNITION SYSTEM:

Maker N.G.K. or HITACHI Diameter (mm) N.G.K. or HITACHI Sparking Clearance (mm) N.G.K. 0.75 Number of pole Insulating Material · · · · · · · · · · · · Porcelain FUEL SYSTEM: Original Model Carburetor -Type · · VC42-1A (680 Series), VC42-4A-5A (60, E690,
 Maker
 FG60. 4W73)

 Dia. of Throttle Valve (mm)
 HITACHI
 1.35(VC42-4A-5A) Dia. of Low Speed Jet (mm) · · · · · · · · 0.55 Dia. of Economizer Jet (mm) · · · · · · · · 1.10 Draft Direction · · · · · · · Downward Type Oil Bath Air-Cleaner -Fuel Feed Pump - Type · · · · · · · · · · · Diaphragm Maker · · · · · · · Showa Seiki/Kyosan Denki LUBRICATING SYSTEM: Type of Oil Pump 6.7 (60 series) COOLING SYSTEM: Method Forced Circulation with Centrifugal Pump

 Radiator
 Fin and Tube Type

 Type of Water Pump
 Centrifugal Pump

 BATTERY:

GENERATOR:

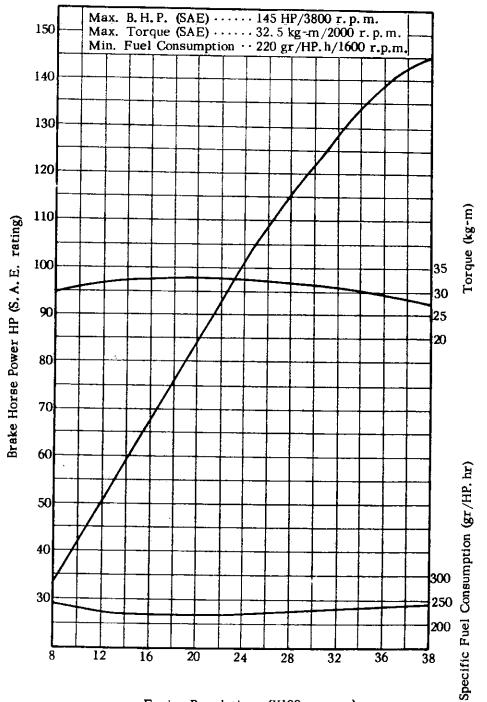
Model																						_			
Maker				•	•	٠	•	•	•	٠	٠	•	•	•	•	•	٠	•	•	٠	٠	ł	II	AC	ш
Type of	Wii	ndii	nσ									•	•		•	•	٠	٠	•	٠	S	hur	it-	WOU	ınd
Voltage		ICH11					-														•		•]	12 v	olt
Capacit	· .	1	•	•	•	-	-	-	-						_	_								20	ωw
Capacit	у (к	W)	•		•	. •	•	•	•	•	•	•	•	•	•	•		•	-	•	6		ha		ila
Type of	Vo.	ltag	ze i	Re	gu	lat	or	٠	•	•	•	•	•					~			ž	81. 4 0/		n-p.	
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STARTING MOTOR:

Model				٠		•				•	•	•	•	•	•	٠	•	•	•]	MFB - HRZ
Maker		۰.							•			•	•	•	٠	•	٠	٠	•	HITACHI
Maker	-		(w-	hn	`								•	•	•	•	٠	•	•	$\cdot 12 - 1.0$
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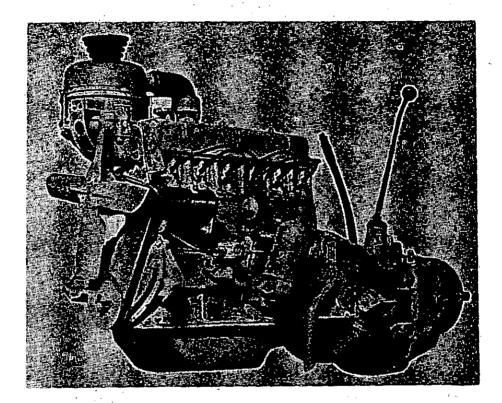


Engine Revolutions (X100 r.p.m.)

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ENGINE-LEFT SIDE

- 5 -

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